PRELIMINARY AMENDMENT WITH RCE
Serial Number: 10/086,370
Filing Date: February 28, 2002
Title: SYSTEMS, FUNCTIONAL DATA, AND METHODS TO PACK N-DIMENSIONAL DATA

Page 2
Dkt: 1528.005US1

IN THE CLAIMS

Please amend the claims as follows.

1.   (Currently Amended) A navigational device, comprising:

a processor;

a memory in communication with the processor;

a display in communication with the processor;

wherein the device uses the memory in cooperation with the processor to compress and pack a plurality of coordinate data into reduced sizes and associate at least a portion of activation data with each coordinate data, each coordinate data having three or more dimensions; and

wherein at least a portion of the coordinate data is dynamically communicated to the display.

2.   (Original) The device of claim 1, further comprising an interface device operable to audibly communicate at least a portion of the coordinate data.

3.   (Currently Amended) The device of claim 1, wherein each dimension includes a delta size associated with an optimal size to compress and pack each coordinate data.

4.   (Currently Amended) The device of claim 3, wherein at least one of the coordinate data exceed the delta size associated with compressing and packing the at least one coordinate data and wherein associating one or more special data ensures the at least one coordinate data are compressed and packed within the delta size associated with the coordinate data.

5.   (Currently Amended) The device of claim 4, wherein:

each dimension is associated with a direction; and

if each direction within each dimension of each associated coordinate data proceeds in a same direction then using a single sign data for each dimension to compress and pack each coordinate data.

PRELIMINARY AMENDMENT WITH RCE
Serial Number: 10/086,370
Filing Date: February 28, 2002
Title: SYSTEMS, FUNCTIONAL DATA, AND METHODS TO PACK N-DIMENSIONAL DATA

Page 3
Dkt: 1528.005US1

6.   (Original) The device of claim 1, wherein at least one of the dimensions is associated with attribute data relating to at least one of the other dimensions.

7.   (Original) The device of claim 1, wherein the device is a handheld portable device.

8.   (Original) The device of claim 1, wherein the memory is remote from the processor.

9.   (Currently Amended) A navigation system, comprising:

a mass storage device adapted to store navigation data;

a server adapted to communicate with the mass storage; and

a navigation device adapted to communicate with and retrieve navigation data from the server via a communication channel, wherein the navigation device includes a processor in communication with a memory, wherein the processor and memory cooperate to compress and pack at least three dimensional data into reduced sizes, and wherein the at least three dimensional data is associated with the navigation data and activation data ~~associated with the at least three dimensional data~~.

10.   (Original) The system of claim 9, wherein the communication channel includes a wireless channel.

11.   (Original) The system of claim 9, wherein the activation data are configurable to activate or deactivate each dimension within the at least three dimensional data of the navigation data.

12.   (Currently Amended) The system of claim 11, wherein the navigation data are compressed and packed within the memory.

13-24. (Canceled).

25.   (Currently Amended) A navigational device, comprising:

        a memory;

        a display;

        a processor that cooperates with the memory to compress <u>and pack</u> navigation data having three or more dimensions wherein the navigation data includes control data and coordinate data; and

        a Global Positioning Satellite (GPS) receiver that cooperates with the processor and provides to the processor specific values for coordinate data, wherein the processor matches the values with portions of the compressed <u>and packed</u> navigation data using the control data and dynamically <u>unpacks and</u> decompresses those matched portions <u>into larger and original sizes</u> and communicates the <u>unpacked and</u> decompressed matched portions to the display.

26.   (Previously Presented)   The navigational device of claim 25, wherein the navigation device is a portable digital assistant.

27.   (Currently Amended) The navigation device of claim 25, wherein the navigation data includes attribute data within one or more of the three or more dimensions, and wherein the attribute data drives presentation effects of the <u>unpacked and</u> decompressed matched portions on the display.

28.   (Currently Amended) The navigation device of claim 25, wherein the navigational device transmits the <u>unpacked and</u> decompressed matched portions to an external device.

29.   (Previously Presented)   The navigational device of claim 25, wherein each of the three or more dimensions include cartographic data.

30.   (Currently Amended) The navigational device of claim 25, wherein the <u>unpacked and</u> decompressed match portions represent in least in part a current position of the device within a route that the device is traveling along.

PRELIMINARY AMENDMENT WITH RCE
Serial Number: 10/086,370
Filing Date: February 28, 2002
Title: SYSTEMS, FUNCTIONAL DATA, AND METHODS TO PACK N-DIMENSIONAL DATA

Page 5
Dkt: 1528.005US1

31.   (Currently Amended) The navigational device of claim 25 further comprising an audio device in cooperation with the processor, wherein the audio device communicates at least a part of the <u>unpacked and</u> decompressed matched portions audibly.

32.   (Currently Amended) The navigational device of claim 25 wherein at least one of the three or more dimensions associated with the <u>unpacked and</u> decompressed matched portions includes landmark data proximate to the navigational device.